



Launch Mission Execution Forecast

Mission: Falcon 9 Transporter-1

Issued: 19 Jan 2021 / 0830L (1330Z)

Valid: 21 Jan 2021 / 0924-1024L (1424-1524Z)



Forecast Discussion: A strong high pressure area has settled over Central Florida resulting in cool mornings and warm afternoons with partly cloudy skies for the next few days. On Thursday, a frontal system will spread across the Eastern Seaboard, draping a front just east of the Space Coast. This will bring in a few added mid-level clouds as the high pressure center is nudged south of the Spaceport. The primary weather concern is the Thick Cloud Layer Rule with these mid-level clouds associated with the frontal boundary.

On Friday, the high pressure area will remain situated to our south while a strong frontal system will approach the Florida Panhandle. This will further destabilize conditions, enhancing the mid-level cloudiness across the area. The primary weather concern for Friday morning remains the Thick Cloud Layer Rule.

Launch Day	Probability of Violating Weather Constraints					
	20%	Primary Concerns: Thick Cloud Layer Rule				
	Weather Conditions					Additional Risk Criteria
	Weather/Visibility: None / 7 mi.	Clouds				Upper-Level Wind Shear: Moderate
	Temp/Humidity: 64°F / 60%	Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather: Low
24-Hour Delay	Liftoff Winds (200'): 330° 5-10 mph	Altostratus	Scattered	10,000	12,000	Solar Activity: Low
	Probability of Violating Weather Constraints					
	30%	Primary Concerns: Thick Cloud Layer Rule				
	Weather Conditions					Additional Risk Criteria
	Weather/Visibility: None / 7 mi.	Clouds				Upper-Level Wind Shear: Low
Temp/Humidity: 66°F / 55%		Type	Coverage	Base (ft)	Tops (ft)	Booster Recovery Weather: Low
Liftoff Winds (200'): 250° 12-17 mph		Cirrostratus	Scattered	25,000	28,000	Solar Activity: Low
Note: The Probability of Violation (POV) is the chance that a Lightning Launch Commit Criteria (LLCC) or certain user constraints (surface winds, precipitation, and temperatures, etc.) will be violated during the launch window. It does not take into account upper-level wind shear, booster recovery weather, and solar activity.						
Next Forecast Will Be Issued		20 Jan 2021				